WHAT IS CLAIMED IS:

1.   1.   A computer-readable medium or propagated signal having embodied
2. thereon a computer program configured to determine whether a user is permitted to
3. access a business object when executing a software application of an enterprise
4. information technology system, the medium or signal comprising one or more code
5. segments configured to:
6.   use a permission object to determine whether a user associated with an entry in
7. user information is permitted to access a data object associated with a data object type,
8. wherein:
9.   the entry in the user information associates the user with a user affiliation,
10.   the permission object identifies:
11.   a user affiliation to which the permission object applies,
12.   a data object type to which the permission object applies such that the data
13.   object type is associated with multiple attributes and each data object having the
14.   data object type is associated with the multiple attributes,
15.   a permission attribute identifying one of the multiple attributes, and
16.   a permission value for the permission attribute, and
17.   the user is permitted to access the data object when (1) the user affiliation that is
18. associated with the user is the same user affiliation as the user affiliation to which the
19. permission object applies, (2) the data object type of the data object is the same data
20. object type as the data object type to which the permission object applies, and (3) a value
21. of an attribute of the multiple attributes associated with the data object is consistent with
22. the permission value of the permission attribute and the attribute corresponds to the
23. permission attribute.

1.   2.   The medium or signal of claim 1 wherein the one or more code segments
2. are further configured to permit the user to access the data object when the value of the
3. attribute of one of the multiple attributes associated with the data object is the same as the
4. permission value of the permission attribute.

1   3.   The medium or signal of claim 1 wherein the one or more code segments

2   are further configured to permit the user to access the data object when the value of the

3   attribute of one of the multiple attributes associated with the data object is the within a

4   range specified by the permission value of the permission attribute.

1   4.   The medium or signal of claim 1 wherein the one or more code segments

2   are further configured to permit the user to access the data object when the value of the

3   attribute of one of the multiple attributes associated with the data object is one of

4   enumerated values specified by the permission value of the permission attribute.

1   5.   The medium or signal of claim 1 wherein:

2   the permission object identifies an attribute group having one or more attributes of

3   the multiple attributes associated with the data object type, and

4   the one or more code segments are further configured to permit the user to access

5   an attribute of the data object only when the attribute of the data object corresponds to an

6   attribute of the attribute group of the permission object.

1   6.   The medium or signal of claim 5 wherein:

2   the permission object identifies a second attribute group having one or more

3   attributes of the multiple attributes associated with the data object type, a second

4   permission attribute identifying one of the multiple attributes, and a second permission

5   value for the second permission attribute, associates the second permission attribute and

6   the second permission value with the second attribute group, and associates the

7   permission attribute and permission value with the attribute group, and

8   the one or more code segments are further configured to permit the user to access

9   an attribute of the data object only when the attribute of the data object corresponds to an

10   attribute of the second attribute group of the permission object and a value of an attribute

11   of one of the multiple attributes associated with the data object is consistent with the

12   second permission value of the second permission attribute.

1   7.   The medium or signal of claim 1 wherein:

2 the permission object identifies a permitted action, and

3 the one or more code segments are further configured to permit the user to access

4 the data object and perform an action on the data object when the action is consistent with

5 the permitted action identified in the permission object.

1 8. A method for determining whether a user is permitted to access a business

2 object when executing a software application of an enterprise information technology

3 system, the method comprising:

4 using a permission object to determine whether a user associated with an entry in

5 user information is permitted to access a data object associated with a data object type,

6 wherein:

7 the entry in the user information associates the user with a user affiliation,

8 the permission object identifies:

9   a user affiliation to which the permission object applies,

10   a data object type to which the permission object applies such that the data

11 object type is associated with multiple attributes and each data object having the

12 data object type is associated with the multiple attributes,

13   a permission attribute identifying one of the multiple attributes, and

14   a permission value for the permission attribute, and

15 the user is permitted to access the data object when (1) the user affiliation that is

16 associated with the user is the same user affiliation as the user affiliation to which the

17 permission object applies, (2) the data object type of the data object is the same data

18 object type as the data object type to which the permission object applies, and (3) a value

19 of an attribute of the multiple attributes associated with the data object is consistent with

20 the permission value of the permission attribute and the attribute corresponds to the

21 permission attribute.

1 9. The method of claim 8 further comprising permitting the user to access the

2 data object when the value of the attribute of one of the multiple attributes associated

3 with the data object is the same as the permission value of the permission attribute.

1   10.   The method of claim 8 further comprising permitting the user to access the

2   data object when the value of the attribute of one of the multiple attributes associated

3   with the data object is the within a range specified by the permission value of the

4   permission attribute.

1   11.   The method of claim 8 further comprising permitting the user to access the

2   data object when the value of the attribute of one of the multiple attributes associated

3   with the data object is one of enumerated values specified by the permission value of the

4   permission attribute.

1   12.   The method of claim 8 wherein the permission object identifies an

2   attribute group having one or more attributes of the multiple attributes associated with the

3   data object type, the method further comprising permitting the user to access an attribute

4   of the data object only when the attribute of the data object corresponds to an attribute of

5   the attribute group of the permission object.

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1   13.   A computer system for determining whether a user is permitted to access a

2   data object when executing a software application of an enterprise information

3   technology system, the system comprising:

4   a data repository for access control information for software having data objects,

5   each data object (1) being associated with a data object type having multiple attributes,

6   (2) having multiple attributes that are the same as the multiple attributes of the data object

7   type to which the data object is associated, and (3) having a value associated with each

8   attribute of the multiple attributes, the data repository including:

9   user information that associates a user affiliation with a user of the

10   software application, and

11   permission information having multiple permission objects, each

12   permission object identifying a user affiliation to which the permission object

13   applies, a data object type to which the permission object applies, a permission

14   attribute identifying one of the multiple attributes, and a permission value for the

15   permission attribute; and

16   an executable software module that causes:

17   a comparison of a value of an attribute of the multiple attributes associated

18   with a data object to which a user seeks to access such that the attribute

19   corresponds to the permission attribute of a permission object with the permission

20   value of the permission object, and

21   an indication that a user is permitted to access a data object when the value

22   of the attribute associated with the data object is consistent with the permission

23   value of the permission object.

1   14.   The system of claim 13 wherein the executable software module causes an

2   indication that a user is permitted to access the data object when the value of the attribute

3   of one of the multiple attributes associated with the data object is the same as the

4   permission value of the permission attribute.

1   15.   The system of claim 13 wherein the executable software module causes an

2   indication that a user is permitted to access the data object when the value of the attribute

3   of one of the multiple attributes associated with the data object is the within a range

4   specified by the permission value of the permission attribute.

1   16.   The system of claim 13 wherein the executable software module causes an

2   indication that a user is permitted to access the data object when the value of the attribute

3   of one of the multiple attributes associated with the data object is one of enumerated

4   values specified by the permission value of the permission attribute.

1   17.   The system of claim 13 wherein:

2   the permission object identifies an attribute group having one or more attributes of

3   the multiple attributes associated with the data object type, and

4   the executable software module causes an indication that a user is permitted to

5   access an attribute of the data object only when the attribute of the data object

6   corresponds to an attribute of the attribute group of the permission object.

1   18.   The system of claim 17 wherein:

2   the permission object identifies a second attribute group having one or more

3   attributes of the multiple attributes associated with the data object type, a second

4   permission attribute identifying one of the multiple attributes, and a second permission

5   value for the second permission attribute, associates the second permission attribute and

6   the second permission value with the second attribute group, and associates the

7   permission attribute and permission value with the attribute group, and

8   the executable software module causes an indication that a user is permitted to

9   access an attribute of the data object only when the attribute of the data object

10   corresponds to an attribute of the second attribute group of the permission object and a

11   value of an attribute of one of the multiple attributes associated with the data object is

12   consistent with the second permission value of the second permission attribute.

1   19.   The system of claim 13 wherein:

2   the permission object identifies a permitted action, and

3   the executable software module causes an indication that a user is permitted to

4   access the data object and perform an action on the data object when the action is

5   consistent with the permitted action identified in the permission object.